

	Design Team PS&E Development Process			Final PS&E Review Process	
Deliverables	Permitting Submittal Review	Intermediate PS&E Submittal Review(s)	PS&E Presubmittal Review	Final PS&E Submittal Review(s)	Ad Copy
Bridge Plan and Elevation	Preliminary plan as defined in Bridge Design Manual (see note 1)	100% complete	100% complete	Address comments from previous reviews	Address comments from previous reviews
General Notes	N/A	90% complete	100% complete	Address comments from previous reviews	Address comments from previous reviews
Construction Method	One feasible method must be identified for the preferred alternative. Supporting details shall be provided for environmental documentation as determined in consultation with project engineer (see note 2)	90% complete for structure construction where the site conditions and environmental restrictions require specific or unconventional methods. Show only methods that will be presented to, and agreed upon with, the regulatory agencies approving the project environmental documentation and permits.  Not required for structure construction where multiple conventional methods apply without restrictions.	100% complete	Address comments from previous reviews	Address comments from previous reviews
Construction Sequence and Schedule	Construction sequence and schedule for preferred alternative (see note 3)	Update as required. Must be completed early in order to confirm compatibility with construction method and permits. Show only sequences that affect design computations and details. May include references to the Special Provisions for calendar day restrictions related to environmentally sensitive work	100% complete	Address comments from previous reviews	Address comments from previous reviews
Foundation Layout	(see note 4)	100% complete	100% complete	Address comments from previous reviews	Address comments from previous reviews
Abutment Plans and Elevations	(see note 4)	100% complete	100% complete.	Address comments from previous reviews	Address comments from previous reviews
Abutment Details	N/A	Fully dimensioned plans, elevations, and sections complete without reinforcement.	100% complete	Address comments from previous reviews	Address comments from previous reviews
Intermediate Pier Plans and Elevations	To be developed for preferred alternative (see note 4)	Fully dimensioned plans, elevations, and sections complete without reinforcement.	100% complete.	Address comments from previous reviews	Address comments from previous reviews
Intermediate Pier Details	N/A	N/A	100% complete	Address comments from previous reviews	Address comments from previous reviews
Framing Plan	N/A	Should be essentially complete but some dimensions may change as design computations are completed.	100% complete	Address comments from previous reviews	Address comments from previous reviews
Typical Structure Sections	To be developed for preferred alternative (see note 4)	Should be essentially complete but some dimensions may change as design computations are completed.	100% complete	Address comments from previous reviews	Address comments from previous reviews
Primary Superstructure Details (girders, slabs, integral crossbeams, post-tensioning details, etc.)	N/A	N/A	100% complete	Address comments from previous reviews	Address comments from previous reviews
Diaphragms and Other Secondary Structure Details	N/A	N/A	100% complete	Address comments from previous reviews	Address comments from previous reviews
Bridge Bearing Details	N/A	Type and size complete. May influence seat width requirements, abutment layout, and framing plans.	100% complete	Address comments from previous reviews	Address comments from previous reviews
Expansion Joint Details	N/A	Type and size complete. May influence seat width requirements, abutment layout, and framing plans.	100% complete	Address comments from previous reviews	Address comments from previous reviews
Bridge Drainage Details	Bridge drainage requirements determined	Inlet types, sizes, and locations shown on appropriate drawings.	100% complete	Address comments from previous reviews	Address comments from previous reviews
Bridge Supported Utility Details	N/A	The number and type of utilities, and their locations in the bridge cross section, abutments and piers	100% complete.	Address comments from previous reviews	Address comments from previous reviews
Signage and Other Traffic Related Attachments	N/A	Type and location shown on appropriate drawings.	100% complete.	Address comments from previous reviews	Address comments from previous reviews
Bridge Barrier Details	N/A	Non-standard barrier types should be identified, but not necessarily fully detailed. Standard barrier types (safety shape traffic barrier, traffic-pedestrian barrier, and pedestrian barrier with sidewalk) should be 90% complete.	100% complete.	Address comments from previous reviews	Address comments previous reviews

	Design Team PS&E Development Process			Final PS&E Review Process	
Deliverables	Permitting Submittal Review	Intermediate PS&E Submittal Review(s)	Final PS&E Presubmittal Review	Final PS&E Submittal Review(s)	Ad Copy
Bridge Railing Details	N/A	Non-standard railing types should be identified, but not necessarily fully detailed. Standard barrier types (bridge railing type BP, bridge railing tupe S-BP, bridge railing type chain link fence) should be 90% complete.	100% complete.	Address comments from previous reviews	Address comments from previous reviews
Bridge Approach Slabs	N/A	Complete for structures using Bridge and Structures Office standard drawings or Standard Plan A-2. Fully dimensioned plans and sections for non-standard applications.	100% complete.	Address comments from previous reviews	Address comments from previous reviews
Bar Bend Detail Sheets	N/A	N/A	100% complete	Address comments from previous reviews	Address comments from previous reviews
Temporary Structures	One feasible method must be identified for the preferred alternative. Supporting details shall be provided for environmental documentation as determined in consultation with project engineer (see note 2)	90% complete. Need to show sufficient details and restrictions that will be discussed with and agreed upon with the regulatory agencies in the project environmental documentations and permits. Example Restrictions may include limits of temporary structures over water, temporary pile spacing, etc.	100% complete	Address comments from previous reviews	Address comments from previous reviews
Structure Design Calculations	N/A	N/A	100% complete	Address comments from previous reviews	Address comments from previous reviews
Structure Construction Cost Estimate	(see note 5)	(see note 5)	Complete, as represented by the sum of the bid item based cost estimate based on the final complete quantity calculations	100% complete, as represented by the sum of the bid item based cost estimate based on the 100% complete quantity calculations	Address comments from previous reviews
Bid Item Quantity Summary and Calculations	N/A	N/A	100% complete	Address comments from previous reviews	Address comments from previous reviews
Special Provisions	N/A	60% complete, based on a runlist including current WSDOT Amendments, General Special Provisions (GSP's), and Bridge Special Provisions (BSP's). The need for certain project specific Special provisions should be identified, but such project specific provisions need not be developed at this stage.	Complete, including runlist of current WSDOT Amendments, GSP's, and BSP's, and 100% complete project specific Special Provisions.	Address comments from previous reviews	Address comments from previous reviews

NOTES:

- The need for a bridge study will depend on the size and complexity of the project. For simple projects, the type of bridge may be determined in consultation with the project engineer during a site visit and a preliminary bridge plan prepared based upon that decision. In other cases the location and/or sizeof a proposed bridge may be known but the type is to be chosen from a list of candidate alternatives determined by the bridge engineer. The selection of a preferred alternative may b based on environmental considerations as well as cost, ability to maintain traffic and aesthetics. For major projects a complete Type, Size and Location (TS&L) study may be required, particularly if alternatives are to be studied and presented to the public for comment. Once the study process is complete, a preliminary plan process shall be completed for the preferred alternative.
- A construction method is required for the preferred alternative in order to identify the construction activities that may be important in the planning and permitting of the project. Construction activities for bridges can create temporary environmental impacts that may be of greater concern to permitting and regulatory agencies than the long-term or permanent environmental impacts. Examples include the construction of temporary bridge and falsework in rivers and clearing of vegetation for staging or heavy construction equipment in environmentally sensitive areas.
- A construction schedule and sequence is required for the preferred alternative in order to identify the duration and timing of construction activities that may be important in the planning and permitting of the project. Pile driving activities, for example, may be limited to certain times of the year in order to avoid impacts to endangered or threatened species. Traffic staging for staged construction is another example
- A foundation layout with dimensions showing the types and sizes of substructure elements may be required in order to complete environmental documentation for the projects, particularly if the bridge is to be constructed over or near water where all construction activities within the designated shoreline of the water body need to be identified and, in some cases, quantified. Geotechnical explorations and a preliminary geotechnical report may be required to support this effort.
- Construction costs for simple bridge may be based on unit costs for bridge deck area. Structure costs for non-conventional structures or conventional structures to be built with non-conventional construction methods should be based upon preliminary bid item quantities.
- PS&E process concludes with final PS&E submittal. The review process for some regions may or may not include the submittal of a proofcopy prior to preparing the AD copy.